

Client Reference: 1999-30-0310A



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re PATENT APPLICATION OF

Gary R. BRASLAWSKY et al.

Group Art Unit: 1642

Application Serial No. 09/238,741

Examiner: L. Helms

Filed: January 28, 1999

Title: PRODUCTION OF TETRAVALENT ANTIBODIES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Copies of the references are included. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed after the first action and before the mailing date of a final office action, notice of allowance, or other action that closes prosecution of the present application, and is accompanied by the fee set forth in 37 C.F.R. §1.17(p).

05/25/2004 HVUONG1 00000166 033975 09238741

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Respectfully submitted,

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Atty. Dkt. No.

Client Ref.

037003-0277113

1999-30-0310A

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicant: BRASLAWSKY et al.

Appln. No.: 09/238,741

Filing Date: January 28, 1999

Date: May 24, 2004

Page 1 of 1

Examiner: Unassigned

Group Art Unit:  
1642

**U.S. PATENT DOCUMENTS**

Examiner's Initials		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date if appropriate
	AR						
	BR						
	CR						
	DR						
	ER						
	FR						
	GR						
	HR						
	IR						

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/YYYY	Country	Inventor Name		Abstract		Readily Available	
							Enclosed	No	Enclose	No
	JR	WO 96/14339	05/1996	PCT	KULL et al.					
	KR	WO 99/66951	12/1999	PCT	HANSEN et al.					
	LR									
	MR									

**OTHER (Including in this order Author, Title, Periodical Name, Date, Volume and Pertinent Pages, etc.)**

	NR	Demidem A, et al., "Chimeric anti-CD20 (IDEC-C2B8) monoclonal antibody sensitizes a B cell lymphoma cell line to cell killing by cytotoxic drugs," <i>Cancer Biotherapy &amp; Radiopharmaceuticals</i> , 1997, 12(3):177-186.
	OR	Featherstone, "Bispecific antibodies: the new magic bullets," <i>Lancet</i> , 1996, 348: 536
	PR	Ghetie M, et al., "Homodimerization of tumor-reactive monoclonal antibodies markedly increases their ability to induce growth arrest or apoptosis of tumor cells," <i>Proc. Natl. Acad. Sci. USA</i> , 1997, 94: 7509-7514
	QR	Hartmann, et al., "Treatment of Hodgkin's disease with bispecific antibodies," <i>Annals of Oncology</i> 7 (Suppl 4), 1996, S143-S146
	RR	Kroesen, et al., "The role of apoptosis: a bispecific antibody-mediated T-cell cytotoxicity", <i>Br. J. Cancer</i> , 1996, 73(6): 721-727
	SR	Ring, et al., "Antigen forks: bispecific reagents that inhibit cell growth by binding selected pairs of tumor antigens," <i>Cancer Immunology Immunotherapy</i> , 1994, 39: 41-48
	TR	Shan et al., "Apoptosis of malignant human B cells by ligation of CD20 with monoclonal antibodies," <i>Blood</i> , 1998, 91(5): 1644-1652
	UR	Shopes, "A genetically engineered human IgG mutant with enhanced cytolytic activity," <i>J. Immun.</i> , 1992, 148(9): 2918-2922
	VR	Snider et al., "Processing fate of protein antigen attached to IgD or MHC molecules on normal B lymphocytes using heterocrosslinked bispecific antibodies," <i>Molecular Immun.</i> , 1991, 28(7): 779-788

Examiner

Date Considered:

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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PTO/SB/17 (10-03)  
Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180.00)

## Complete if Known

Application Number	09/238,741
Filing Date	January 28, 1999
First Named Inventor	GARY R BRASLAWSKY
Examiner Name	L. Helms
Art Unit	1642
Attorney Docket No.	037003-0277113

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit  
Account  
Number  
Deposit  
Account  
Name

033975

PILLSBURY WINTHROP LLP

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

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## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$ 0.00)

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims 32 -20\*\* = -14 X Fee from below = 0  
Independent Claims 2 X 3\*\* = 0 X Fee from below = 0  
Multiple Dependent -4\*\* = 0 X Fee from below = 0

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 0.00)

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 180.00)

## SUBMITTED BY

Name (Print/Type)	Thomas A. Cawley, Jr.	Registration No. (Attorney/Agent)	40944	Telephone	(703) 905-2144
Signature		Date	May 24, 2004		

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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